

2003 ACCESSORIES/SAFETY EQUIPMENT

Volkswagen - Air Bag Restraint Systems

DESCRIPTION & OPERATION

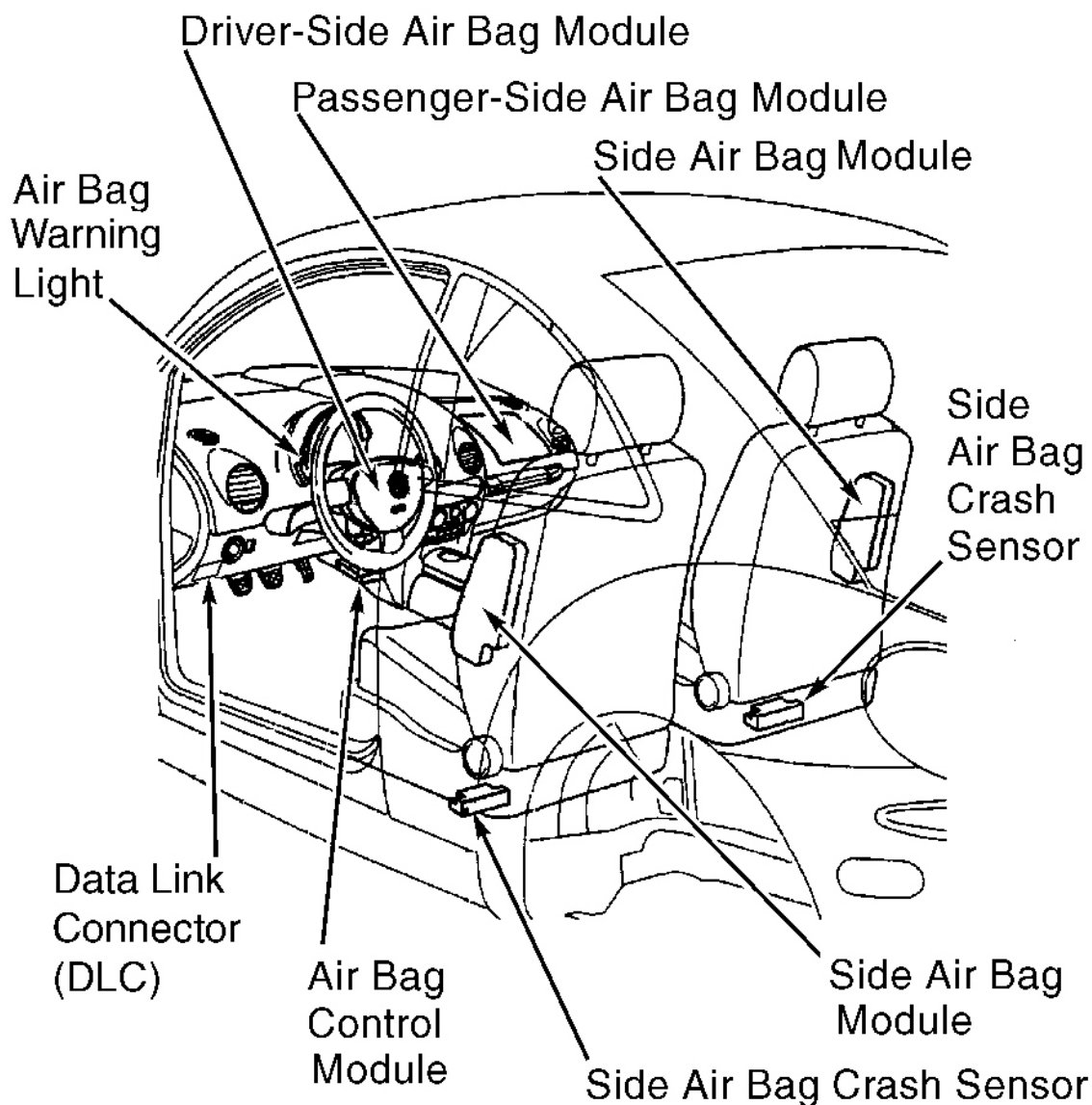
WARNING: Accidental air bag deployment is possible. Personal injury may result. Read and follow all WARNINGS and AIR BAG SAFETY PRECAUTIONS before working on air bag system or related component.

The Supplemental Restraint System (SRS), also known as air bag system, is designed to provide increased accident protection for driver and passengers by deploying front air bags and seat belt pretensioners in a front-end collision and side air bags in a lateral collision.

Main components of air bag system include air bag control module (mounted on tunnel under center console), driver-side air bag module, passenger-side air bag module, side air bag modules, side air bag impact (crash) sensors, seat belt pretensioners, data link connector, AIR BAG warning light and spiral spring (clockspring). See Fig. 1 .

COMPONENT LOCATIONS

Refer to illustration for restraint system component locations. See Fig. 1 .



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Fig. 1: Locating Restraint System Components
Courtesy of VOLKSWAGEN UNITED STATES, INC.

SERVICING

Manufacturer recommends air bag system inspection be performed as part of every annual lubrication and maintenance service. Air bag system inspection consists of visual inspection only. No parts are routinely replaced.

SYSTEM OPERATION CHECK

Turn ignition switch to ON position. AIR BAG warning light should come on for about 4 seconds and then go out. If light comes on and remains on, air bag control module has detected a system fault. See

DIAGNOSTICS. If light flashes for an additional 15 seconds, passenger-side air bag is disabled. If light does not come on, check bulb. If bulb is okay, perform diagnostics. See **DIAGNOSTICS**.

AIR BAG SAFETY PRECAUTIONS

Observe these precautions when working with air bag systems:

- Obtain radio anti-theft code (if equipped) before disconnecting battery.
- Disable air bag system before servicing any air bag system or steering column component. See **DISABLING & ACTIVATING AIR BAG SYSTEM**.
- DO NOT attempt repair of any air bag system component.
- DO NOT leave air bag parts unattended. They should be installed in vehicle immediately after obtaining them.
- DO NOT use air bag components which have been dropped onto hard surface from at least 20" (0.5 m) or show signs of damage.
- DO NOT allow chemical cleaners, oil or grease to contact vinyl covering on air bag module.
- DO NOT place stickers or covers on steering wheel.
- Always disable air bag system before performing electric welding on vehicle.
- Use only Scan Tool (VAG 1551) to test air bag system. Never use test light on air bag system.
- DO NOT expose air bag modules to temperatures greater than 212°F (100°C).
- Use only original equipment seat covers and clips that are designed for use with side air bags (identified by label on fabric). Ensure cover seam is straight in area of side air bag. DO NOT use aftermarket seat covers.
- Technicians must electrostatically discharge themselves before picking up or touching air bag unit.

DISABLING & ACTIVATING AIR BAG SYSTEM

**WARNING: Accidental air bag deployment is possible. Personal injury may result.
Avoid using memory savers when working on air bag system.**

To disable air bag system, disconnect negative battery cable. No waiting time is necessary. To activate system, ensure no one is inside vehicle. Reconnect negative battery cable. Perform **SYSTEM OPERATION CHECK**.

DISPOSAL PROCEDURES

DEPLOYED AIR BAGS OR SEAT BELT PRETENSIONERS

Dispose of deployed air bag modules or seat belt pretensioners as any other part. Wear gloves, safety glasses and long-sleeve shirt when handling.

UNDEPLOYED AIR BAGS OR SEAT BELT PRETENSIONERS

An undeployed air bag or seat belt pretensioner must be deployed before disposal. See **SCRAPPED VEHICLE**.

UNDEPLOYED AIR BAGS OR SEAT BELT PRETENSIONER (FAULTY UNIT)

If undeployed air bag or seat belt pretensioner has been diagnosed as faulty, remove faulty component and return intact to manufacturer for proper disposal. Air bag must be packaged and shipped according to U.S. Department of Transportation procedures.

SCRAPPED VEHICLE

DO NOT deploy air bag(s) in vehicle. Remove air bag from vehicle. See **REMOVAL & INSTALLATION**.

Using Deployment Device (J-44210), along with accompanying Air Bag & Pyrotechnic Deployment Device Instruction Booklet, deploy air bags and/or seat belt pretensioners (pyrotechnic devices). Dispose of deployed air bag modules or seat belt pretensioners as you would any other part.

POST-COLLISION INSPECTION

When a vehicle has been involved in a collision, certain components of the passive restraint system must be inspected or replaced. See **AIR BAG/SRS COMPONENT INSPECTION & REPLACEMENT TABLES** article in the GENERAL INFORMATION section.

REMOVAL & INSTALLATION

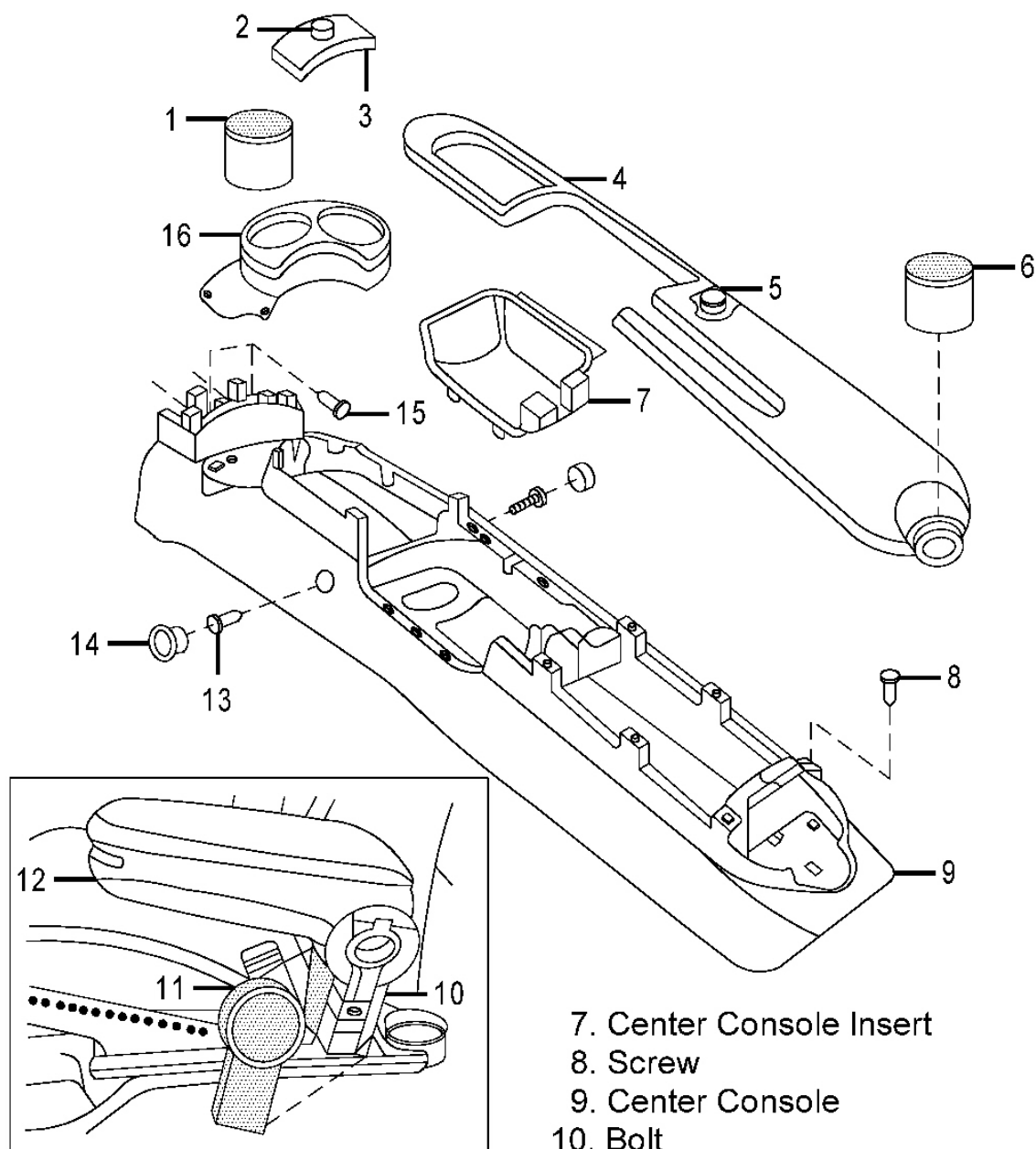
WARNING: Accidental air bag deployment is possible. Personal injury may result. Read **AIR BAG SAFETY PRECAUTIONS** before working on air bag system or related component.

AIR BAG CONTROL MODULE

Removal & Installation

1. Disable air bag system. See **DISABLING & ACTIVATING AIR BAG SYSTEM**. Unclip center armrest side trim, remove bolt and center armrest. See **Fig. 2**. Remove rear ashtray/or cup holder by turning counter-clockwise and up. Slide complete front cup holder/ashtray assembly to right to remove.
2. Pull parking brake lever up and using screwdriver, remove trim from around parking brake lever. Slide gearshift lever boot upward and loosen clamp underneath. Remove gearshift lever knob with boot.
3. Remove console cover mounting screws. Remove console cover and disconnect cigarette lighter connector. Remove center console insert. Pry off console mounting screw covers and remove console screws. Raise center console at rear and pull back over gearshift lever.
4. Remove screws and clip on trim under instrument panel. Pull rearward, disconnect connector and remove. Press locking tab and swing connector locking bar to unlock position. See **Fig. 3**. Disconnect harness connector. Remove module mounting nuts and remove air bag control module from mounting studs.
5. To install, reverse removal procedure. Tighten air bag control module mounting nuts and center armrest

bolt to specification. See **TORQUE SPECIFICATIONS** . Activate air bag system. Replacement air bag control modules must be coded. See **CODING AIR BAG CONTROL MODULE** under **DIAGNOSTICS**. Perform **SYSTEM OPERATION CHECK** .

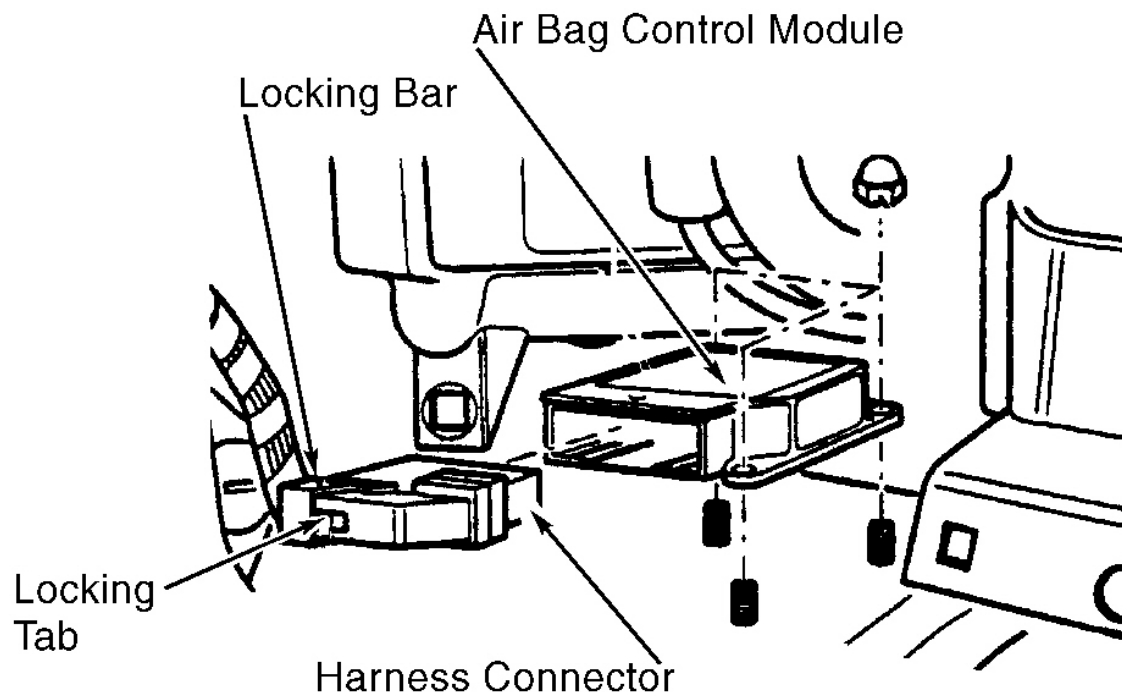


1. Front Ashtray
2. Cigarette Lighter
3. Front Cover
4. Center Console Cover
5. Power Outlet
6. Rear Ashtray

7. Center Console Insert
8. Screw
9. Center Console
10. Bolt
11. Center Armrest Side Trim
12. Center Armrest
13. Screw
14. Screw Cover
15. Screw
16. Front Cup Holder Assembly

Fig. 2: Identifying Center Console Components

Courtesy of VOLKSWAGEN UNITED STATES, INC.



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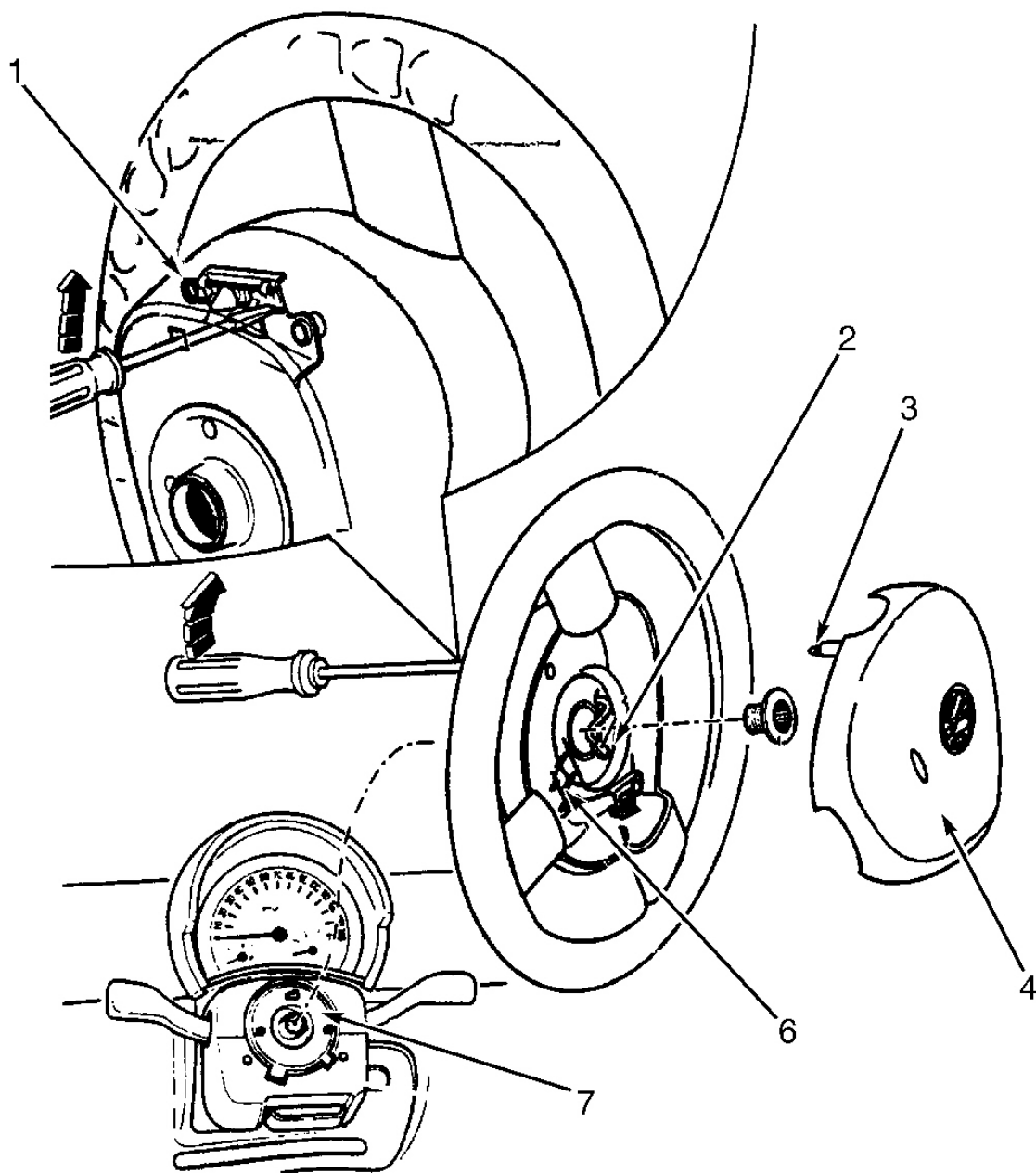
Fig. 3: Identifying Air Bag Control Module

Courtesy of VOLKSWAGEN UNITED STATES, INC.

DRIVER-SIDE AIR BAG MODULE

Removal & Installation

1. Disable air bag system. See **DISABLING & ACTIVATING AIR BAG SYSTEM**. Release steering column adjustment. Turn steering wheel so steering wheel spokes are vertical. Lock steering column in fully extended and lowered position. Remove instrument cluster, if necessary. See **INSTRUMENT CLUSTER**.
2. Raise steering wheel to highest position. Insert 7" (175 mm) screwdriver 1.75" (45 mm) into hole on back of steering wheel and twist clockwise, pressing clip back and releasing air bag locking lug. See **Fig. 4**.
3. Turn steering wheel 180 degrees and repeat last step to release locking lug on other side. Center steering wheel. Tilt air bag module forward. Disconnect harness and remove air bag module.
4. To install, reverse removal procedure. Activate air bag system. See **DISABLING & ACTIVATING AIR BAG SYSTEM**. Perform **SYSTEM OPERATION CHECK**.



- 1. Retaining Clip
- 2. Harness Connector
- 3. Locking Lug

- 4. Driver-Side Air Bag
- 5. Locking Plate
- 6. Spiral Spring

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Fig. 4: Identifying Driver-side Air Bag

Courtesy of VOLKSWAGEN UNITED STATES, INC.

INSTRUMENT CLUSTER

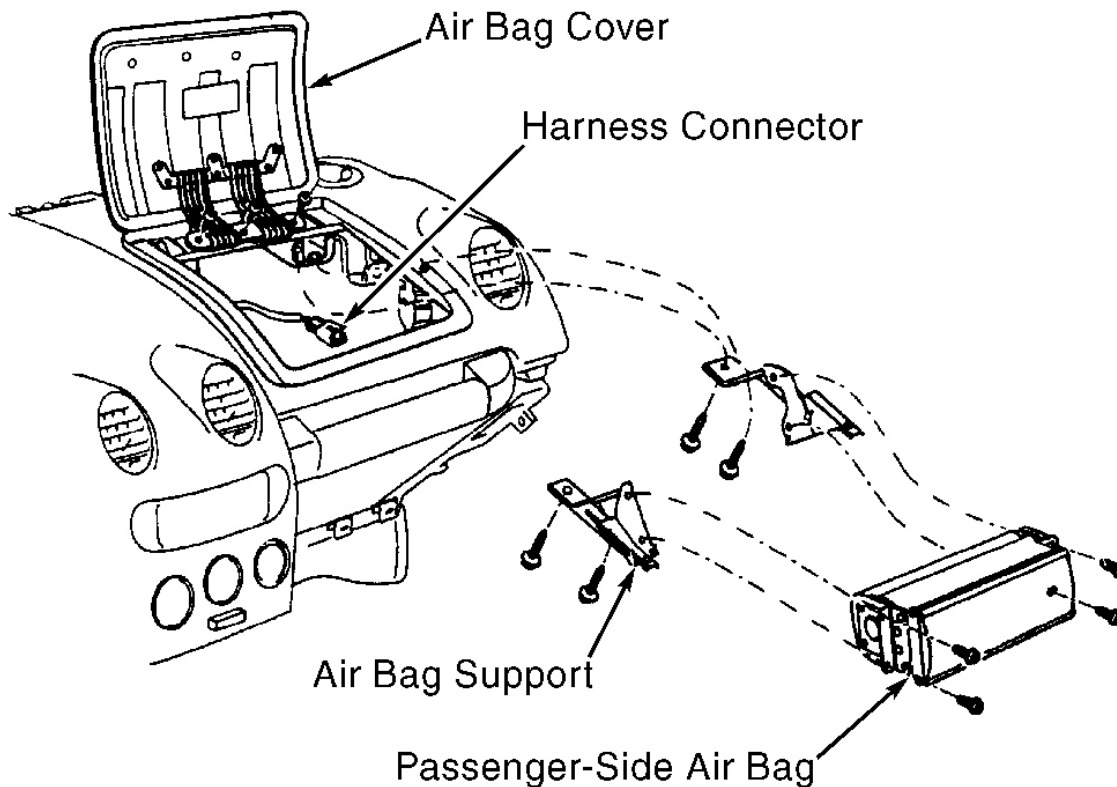
Removal & Installation

Release steering column adjustment. Lock steering column in fully extended and lowered position. Release instrument cluster trim ring from mounting clips. Remove 2 screws and tilt instrument cluster toward passenger compartment. Disconnect instrument cluster harness connectors. Remove instrument cluster. To install, reverse removal procedure.

PASSENGER-SIDE AIR BAG MODULE

Removal & Installation

1. Disable air bag system. See **DISABLING & ACTIVATING AIR BAG SYSTEM**. Remove glove box. Carefully pry passenger-side air bag cover up from instrument panel. See **Fig. 5**. If air bag module has been deployed, swing cover up, remove nuts and air bag cover. Remove screws and lift air bag from supports. Disconnect connector and remove passenger-side air bag module. Remove air bag supports.
2. To install, reverse removal procedure. Install NEW air bag supports if air bag has deployed. Tighten air bag module mounting bolts to specification. See **TORQUE SPECIFICATIONS**. Activate air bag system. Perform **SYSTEM OPERATION CHECK**.



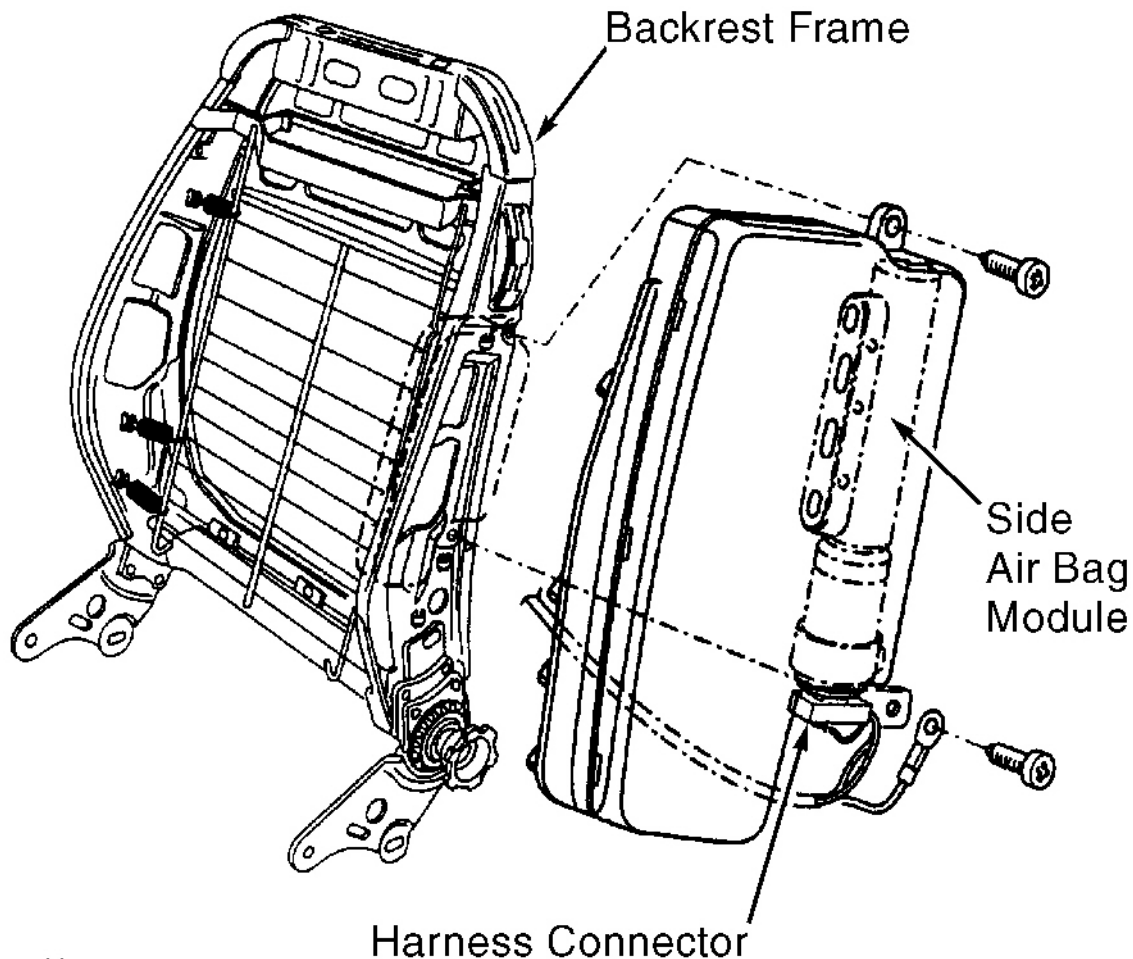
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Fig. 5: Identifying Passenger-side Air Bag
Courtesy of VOLKSWAGEN UNITED STATES, INC.

SIDE AIR BAG MODULES

Removal & Installation

1. Disable air bag system. See **DISABLING & ACTIVATING AIR BAG SYSTEM**. Remove front seat backrest frame and release backrest cover in area of air bag. See **Fig. 6**. Remove side air bag module mounting bolts. Disconnect harness connector. Remove air bag module.
2. To install, reverse removal procedure. Tighten side air bag mounting bolts to specification. See **TORQUE SPECIFICATIONS**. Activate air bag system. Perform **SYSTEM OPERATION CHECK**.



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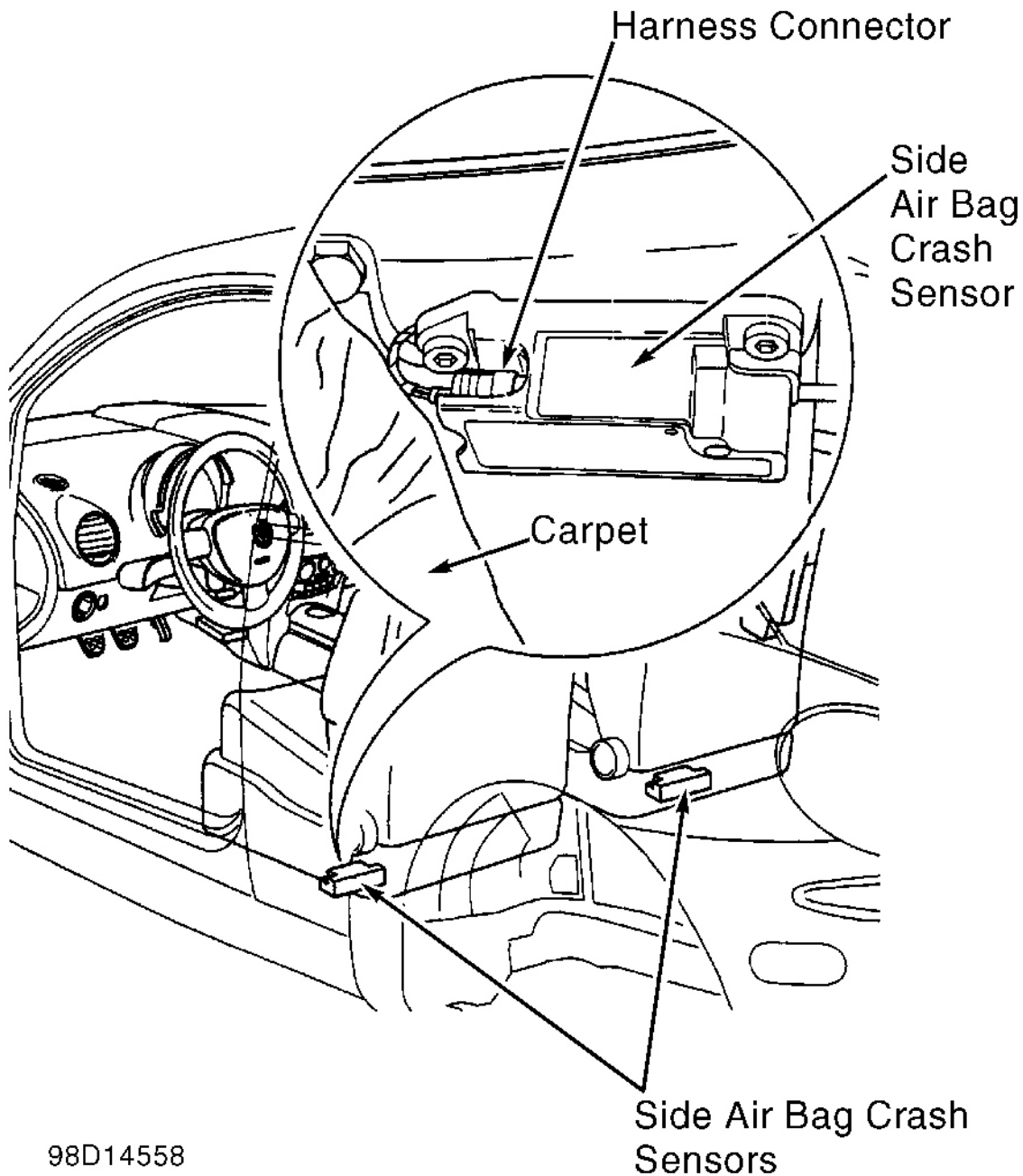
Fig. 6: Identifying Side Air Bag Module
Courtesy of VOLKSWAGEN UNITED STATES, INC.

SIDE AIR BAG IMPACT (CRASH) SENSORS

Removal & Installation

1. Disable air bag system. See **DISABLING & ACTIVATING AIR BAG SYSTEM**. Impact (crash) sensors for side air bag modules are mounted under each front seat. See **Fig. 7**. Remove appropriate front seat. Release carpet and insulation mat in area of sensor. Disconnect impact sensor harness connector. Remove mounting bolts and impact sensor.
2. To install, reverse removal procedure. Tighten side air bag impact (crash) sensor mounting bolts to specification. See **TORQUE SPECIFICATIONS**. Activate air bag system. Perform **SYSTEM**

OPERATION CHECK.



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Fig. 7: Identifying Side Air Bag Impact (Crash) Sensor
Courtesy of VOLKSWAGEN UNITED STATES, INC.

STEERING WHEEL

Removal & Installation

1. Disable air bag system. See **DISABLING & ACTIVATING AIR BAG SYSTEM**. Remove driver-side air bag module. See **DRIVER-SIDE AIR BAG MODULE**. Remove steering wheel bolt. Disconnect

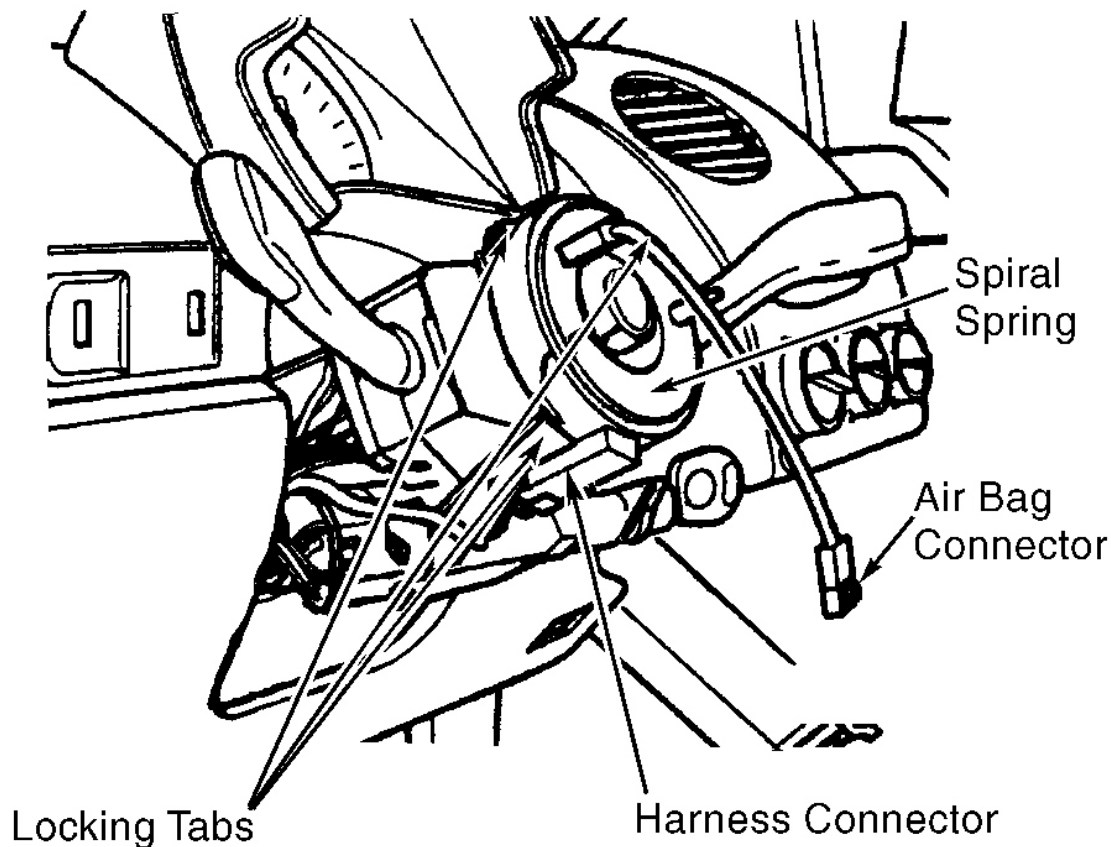
harness connectors. Remove steering wheel.

2. To install, reverse removal procedure. Install new steering wheel bolt and tighten to specification. See **TORQUE SPECIFICATIONS**. Activate air bag system. Perform **SYSTEM OPERATION CHECK**.

SPIRAL SPRING

Removal & Installation

1. Disable air bag system. See **DISABLING & ACTIVATING AIR BAG SYSTEM**. Ensure front wheels are in straight-ahead position. Remove steering wheel. See **STEERING WHEEL**. Remove upper steering column cover.
2. Release steering column height adjustment lever. Remove steering column height adjustment lever handle. Remove lower steering column cover. Disconnect harness connector from spiral spring. See **Fig. 8**. Release locking tabs and remove spiral spring. DO NOT turn or twist spiral spring after removal.
3. To install, reverse removal procedure. NEW spiral spring has cable locking assembly in centered position. Remove cable tie before installing spiral spring. Ensure front wheels are in straight-ahead position. Activate air bag system. Perform **SYSTEM OPERATION CHECK**.



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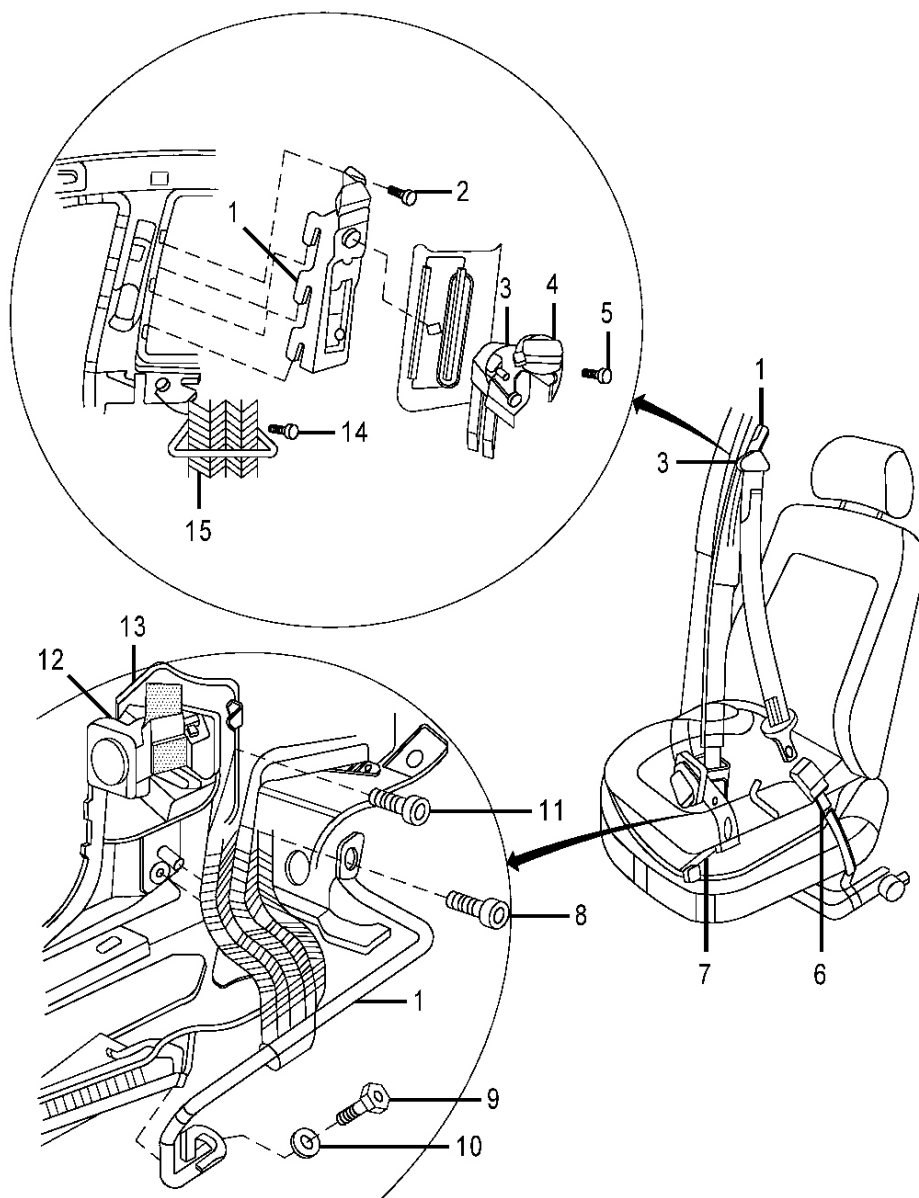
Fig. 8: Identifying Spiral Spring Assembly
Courtesy of VOLKSWAGEN UNITED STATES, INC.

SEAT BELT PRETENSIONERS

WARNING: After collision in which one or both front seat belt pretensioners have been activated, both seat belts must be replaced. They will no longer retract.

Removal & Installation

1. Disable air bag system. See **DISABLING & ACTIVATING AIR BAG SYSTEM**. Lift upper anchor cover and remove upper anchor bolt from upper belt anchor. See **Fig. 9**. Pull door inner seal away from lower section of B-pillar. Remove B-pillar trim panel.
2. If no seat belt pretensioner connector is present, loosen pretensioner deactivation bolt to render mechanical seat belt pretensioner safe, otherwise, disconnect seat belt pretensioner connector. Remove seat belt lower anchor rail bolts and anchor rail. Remove seat belt pretensioner bolt and pretensioner.
3. To install, reverse removal procedure. Tighten bolts and screws to specification. See **TORQUE SPECIFICATIONS**. Activate air bag system. Perform **SYSTEM OPERATION CHECK**.



- | | |
|--------------------------------|---|
| 1. Seat Belt Height Adjuster | 10. Washer |
| 2. Height Adjuster Screw | 11. Bolt (For Deactivation On Mechanical Pretensioners) |
| 3. Upper Belt Anchor | 12. Seat Belt W/Pretensioner |
| 4. Upper Anchor Cover | 13. Connector (Electric Pretensioners) |
| 5. Upper Anchor Bolt | 14. Upper Guide Screw |
| 6. Front Belt Buckle | 15. Belt Guide |
| 7. Lower Anchor Rail | |
| 8. Seat Belt Pretensioner Bolt | |
| 9. Lower Anchor Rail Bolt | |

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Fig. 9: Identifying Seat Belt Pretensioner
 Courtesy of VOLKSWAGEN UNITED STATES, INC.

DIAGNOSTICS

WARNING: Accidental air bag deployment is possible. Personal injury may result. Read and follow all WARNINGS and AIR BAG SAFETY PRECAUTIONS before working on air bag system or related component

ON BOARD DIAGNOSTIC (OBD) SYSTEM

NOTE: Use VAG 1551 Scan Tool (ST) with appropriate adapter cables when diagnosing and erasing DTC's. Other optional diagnostic tools available are, VAG 1552, VAS 5051 Tester and VAS 5056 Test Box, which may be used in place of VAG 1551.

Connecting Scan Tool (Vag

Connect Scan Tool (VAG 1551) with Adapter (VAG 1551/3) or equivalent, to 16-pin Data Link Connector (DLC) in lower left corner of instrument panel, to left of steering wheel. If there is no display, check voltage supply to DLC.

Checking & Erasing DTC Memory

1. With Scan Tool (VAG 1551) or equivalent connected, turn ignition on. Press button "1" to select rapid data transfer. Press buttons "1" and "5" to select air bag code 15. Confirm input with "Q" button. Use right arrow to scroll forward through program. After approximately 5 seconds, RAPID DATA TRANSFER and SELECT FUNCTION will appear on display. Press buttons "0" and "2" to select "Check DTC Memory" function 02. Confirm input with "Q" button. Perform appropriate diagnostic test. See **DIAGNOSTICS**.
2. Press buttons "0" and "5" to select "Erase DTC Memory" function 05. Confirm input with "Q" button. Intermittent malfunctions are indicated by "/SP" on right side of scan tool display. Press "Print" button for complete printout of scan tool operation. To conduct an automatic test sequence, enter "00" and confirm input with "Q" button.

DIAGNOSTIC TROUBLE CODE (DTC) CHART

Trouble Code	Possible Cause
00532	Supply voltage too high/low
00588	Driver-side air bag resistance Too high/low, short to voltage or ground
00589	Passenger-side air bag resistance Too high/low, short to voltage or ground
00591	Left seat belt switch undefined switch condition, Short to ground or open/short to voltage
00592	Right seat belt switch undefined switch condition, Short to ground or open/short to voltage
00594	Air bag circuit short to voltage or ground
00595	Impact data stored
00654	Left electric seat belt pretensioner resistance Too high/low, short to voltage or ground

00655	Right electric seat belt pretensioner resistance Too high/low, short to voltage or ground
01025	AIR BAG warning light activation faulty
01044	Air bag control module incorrectly coded
01214	Impact data stored seat belt pretensioner
01217	Left side air bag resistance Too high/low, short to voltage or ground
01218	Right side air bag resistance Too high /low, short to voltage or ground
01221	Left side air bag impact (crash) sensor resistance Too high/low, open/short to voltage or ground, or faulty
01222	Right side air bag impact (crash) sensor resistance Too high/low, open/short to voltage or ground, or faulty Not matched to control module, incorrect or no adjustment
01224	Equipment incorrectly coded
01226	Impact data for left side air bag stored
01227	Impact data stored right side air bag
01299	Data-bus no communication Incorrect or no adjustment
01312	Data-bus faulty
01317	Instrument cluster control module No communication, incorrect or no setting
01578	Passenger side air bag off warning light Open to ground or open/short to voltage
65535	Air bag control module malfunction

Coding AIR Bag Control Module

1. With Scan Tool (VAG 1551) or equivalent connected, turn ignition on. Press button "1" to select rapid data transfer. Press buttons "1" and "5" to select air bag code 15. Confirm input with "Q" button. Use right arrow to scroll forward through program.
2. After approximately 5 seconds, RAPID DATA TRANSFER and SELECT FUNCTION will appear on display. Press buttons "0" and "7" to select "Code Control Module" function 07. Confirm input with "Q" button. Enter correct air bag control module code for vehicle configuration. See **IDENTIFYING AIR BAG CONTROL MODULE INPUT CODES** table.
3. Confirm input with "Q" button. Press buttons "0" and "6" to select "End Output" function 06. Confirm input with "Q" button. Remove key from ignition. Repeat procedure to ensure correct coding. Check system for proper operation. Go to **SYSTEM OPERATION CHECK**.

IDENTIFYING AIR BAG CONTROL MODULE INPUT CODES

Module Part Number & (Index Number)	Components Equipped on Vehicle	Air Bag Control Module Input Code
6Q0 909 605 A (05)	Driver/passenger-side, side air bags, & belt pretensioner	12341
6Q0 909 605 A (03)	Driver/passenger-side air bags with knee-bar, side air bags, & belt pretensioner	12342

6Q0 909 605 A (0J)	Driver/passenger-side air bags, side air bags, & belt pretensioner	12362
6Q0 909 605 A (0L)	Driver/passenger-side air bags, side air bags, & belt pretensioner	12364
6Q0 909 605 A (0N)	Driver/passenger-side air bags, side air bags, & belt pretensioner	12366
6Q0 909 605 A (0Q)	Driver/passenger-side air bags, side air bags, & belt pretensioner	12369
6Q0 909 605 A (0S)	Driver/passenger-side air bags, side air bags, & belt pretensioner	12371
6Q0 909 605 A (2F) 1C0 909 605 A (2F)	Driver/passenger-side air bags, side air bags, & belt pretensioner	12870
6Q0 909 605 A (16) 1C0 909 605 A (16)	Driver/passenger-side air bags, side air bags, & belt pretensioner	12598
6Q0 909 605 A (24) 1C0 909 605 A (24)	Driver/passenger-side air bags, side air bags, & belt pretensioner	12852
6Q0 909 605 A (25) 1C0 909 605 A (25)	Driver/passenger-side air bags, side air bags, & belt pretensioner	12853
6Q0 909 605 F (1P)	Driver/passenger-side air bags, side air bags, & belt pretensioner	12624
1C0 909 605 A (37)	Driver/passenger-side air bags, side air bags, & belt pretensioner	13111

DIAGNOSTIC TESTS

CODE : SUPPLY VOLTAGE SIGNAL TOO HIGH/LOW

Possible Cause

Battery discharged or malfunctioning. Faulty wiring or connections to air bag control module.

Corrective Action

Charge or replace battery. Replace faulty wiring or connections to air bag control module.

CODE : DRIVER-SIDE AIR BAG RESISTANCE HIGH/LOW, SHORT TO VOLTAGE OR GROUND

Possible Cause

Faulty wiring or connections. Spiral spring or driver-side air bag defective.

Corrective Action

Replace faulty wiring or connections. Check spiral spring. Replace driver-side air bag.

CODE : PASSENGER-SIDE AIR BAG RESISTANCE HIGH/LOW, SHORT TO VOLTAGE OR GROUND

Possible Cause

Faulty wiring or connections. Passenger-side air bag defective.

Corrective Action

Replace faulty wiring or connections. Replace passenger-side air bag.

CODE : LEFT SEAT BELT SWITCH UNDEFINED SWITCH CONDITION, SHORT TO GROUND, OPEN/SHORT TO VOLTAGE

Possible Cause

Faulty wiring or connections. Left seat belt switch defective.

Corrective Action

Replace faulty wiring or connections. Replace left seat belt switch.

CODE : RIGHT SEAT BELT SWITCH UNDEFINED SWITCH CONDITION, SHORT TO GROUND, OPEN/SHORT TO VOLTAGE

Possible Cause

Faulty wiring or connections. Right seat belt switch defective.

Corrective Action

Replace faulty wiring or connections. Replace right seat belt switch.

CODE : AIR BAG CIRCUIT SHORT TO VOLTAGE OR GROUND

Possible Cause

Faulty wiring or connections to air bag module.

Corrective Action

Replace faulty wiring or connections.

CODE : IMPACT DATA STORED OR SHORT CIRCUIT

Possible Cause

Frontal collision or short circuit between ignition circuits.

Corrective Action

Replace air bags, air bag control module and other components as necessary. Repair faulty wiring or connections.

CODE : DRIVER-SIDE SEAT BELT PRETENSIONER RESISTANCE HIGH/LOW, SHORT TO VOLTAGE OR GROUND

Possible Cause

Faulty wiring or connections. Air bag defective.

Corrective Action

Replace faulty wiring or connections. Replace seat belt pretensioner.

CODE : PASSENGER-SIDE SEAT BELT PRETENSIONER RESISTANCE HIGH/LOW, SHORT TO VOLTAGE OR GROUND

Possible Cause

Faulty wiring or connections. Air bag defective.

Corrective Action

Replace faulty wiring or connections. Replace seat belt pretensioner.

CODE : AIR BAG WARNING LIGHT ACTIVATION FAULTY

Possible Cause

AIR BAG warning light bulb faulty. Faulty wiring or connections. Air bag control module defective.

Corrective Action

Replace bulb. Replace faulty wiring or connections. Replace air bag control module.

CODE : AIR BAG CONTROL MODULE INCORRECTLY CODED

Possible Cause

Air bag control module incorrect for vehicle installed in.

Corrective Action

Replace air bag control module corresponding to correct vehicle equipment.

CODE : IMPACT DATA STORED SEAT BELT PRETENSIONER

Possible Cause

Frontal collision or short circuit between seat belt pretensioner and control module. Faulty wiring or connections.

Corrective Action

Replace seat belt pretensioners and other components as necessary. Replace faulty wiring or connections.

CODE : LEFT SIDE AIR BAG RESISTANCE HIGH/LOW, SHORT TO VOLTAGE OR GROUND

Possible Cause

Faulty wiring or connections. Air bag defective.

Corrective Action

Replace faulty wiring or connections. Replace air bag.

CODE : RIGHT SIDE AIR BAG RESISTANCE HIGH/LOW, SHORT TO VOLTAGE OR GROUND

Possible Cause

Faulty wiring or connections. Air bag defective.

Corrective Action

Replace faulty wiring or connections. Replace air bag.

CODE : LEFT SIDE AIR BAG IMPACT (CRASH) SENSOR RESISTANCE HIGH/LOW, SHORT TO VOLTAGE OR GROUND, OR FAULTY

Possible Cause

Faulty wiring or connections. Impact (crash) sensor or air bag control module defective or mismatched.

Corrective Action

Replace faulty wiring or connections. Replace impact (crash) sensor or air bag control module.

CODE : RIGHT SIDE AIR BAG IMPACT (CRASH) SENSOR RESISTANCE HIGH/LOW, SHORT TO VOLTAGE OR GROUND, OR FAULTY

Possible Cause

Faulty wiring or connections. Impact (crash) sensor or air bag control module defective or mismatched.

Corrective Action

Replace faulty wiring or connections. Replace impact (crash) sensor or air bag control module.

CODE : EQUIPMENT INCORRECTLY CODED**Possible Cause**

Air bag control module mismatched to vehicle equipment.

Corrective Action

Replace air bag control module corresponding to correct vehicle equipment.

CODE : IMPACT DATA FOR LEFT SIDE AIR BAG STORED**Possible Cause**

Side collision or short circuit between left side air bag and control module.

Corrective Action

Erase DTC memory, or replace air bag control module. Code 01226 can be reset twice by erasing DTC memory. After third activation, air bag control module must be replaced. Replace side air bag module and all other damaged components.

CODE : IMPACT DATA FOR RIGHT SIDE AIR BAG STORED**Possible Cause**

Side collision or short circuit between right side air bag and control module.

Corrective Action

Replace right side air bag and other components as necessary. Replace faulty wiring or connections.

CODE : DIAGNOSTIC INTERFACE FOR DATA-BUS NO COMMUNICATION/NO OR INCORRECT ADJUSTMENT**Possible Cause**

Open or short circuit in wiring or connectors. Diagnostic interface instrument cluster not correctly coded.

Corrective Action

Locate and repair or replace damaged wiring or connectors. Check diagnostic interface and replace as necessary (replace instrument cluster). Perform or check coding of diagnostic interface.

CODE : DATA-BUS DRIVE FAULTY

Probable Cause

Faulty wiring or connections. Coding incorrect. Defective data-bus.

Corrective Action

Locate and repair damaged wiring. Replace instrument cluster. Check instrument cluster control module coding.

CODE : CONTROL MODULE IN INSTRUMENT CLUSTER NO COMMUNICATION

Probable Cause

Open or short circuit in wiring or connectors. Coding for control modules is incorrect. Diagnostic interface malfunctioning.

Corrective Action

Locate and repair or replace damaged wiring or connectors. Check coding and DTC memory for all control modules. Check diagnostic interface and replace as necessary (replace instrument cluster).

CODE : PASSENGER-SIDE AIR BAG OFF WARNING LIGHT OPEN TO GROUND, OPEN/SHORT TO VOLTAGE

Possible Cause

Faulty wiring or connections. Warning light faulty.

Corrective Action

Locate and repair damaged wiring. Replace warning light.

CODE : AIR BAG CONTROL MODULE DEFECTIVE

Possible Cause

Air bag control module faulty or electrical interference.

Corrective Action

Check wiring and connections to air bag control module. Check air bag control module coding.

WIRE REPAIR

No specific wire repair procedures are provided by manufacturer.

TORQUE SPECIFICATIONS

TORQUE SPECIFICATIONS

Application	Ft. Lbs. (N.m)
Center armrest bolt	13 (18)
Pretensioner deactivation bolt (mechanical pretensioner only)	30 (40)
Seat belt height adjuster screw	17 (23)
Seat belt lower anchor rail bolt	30 (40)
Seat belt pretensioner mounting bolt	17 (23)
Seat belt upper anchor bolt	30 (40)
Steering wheel bolt (with locking compound) ⁽¹⁾	37 (50)
INCH Lbs. (N.m)	
Air bag control module mounting nuts	71 (8.0)
Passenger-side air bag	
Cover screws	35 (4.0)
Module mounting bolts	106 (12.0)
Support bracket bolts	106 (12.0)
Seat belt upper guide screws	13 (1.5)
Side air bag impact (crash) sensor mounting bolts	53 (6.0)
Side air bag module mounting bolts	62 (7.0)
(1) Bolt can be reused 5 times. Mark bolt after each reuse.	

WIRING DIAGRAMS

Wiring diagrams are not available.